



WORK ORDER NUMBER: 14-09-2329

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Malibu Unites

Client Project Name: M.H. 3

Attention: Jennifer deNicola
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

A handwritten signature in black ink, appearing to read "Don Burley".

Approved for release on 10/08/2014 by:
Don Burley
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 14-09-2329

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Work Order Narrative

Work Order: 14-09-2329

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 09/30/14. They were assigned to Work Order 14-09-2329.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

Client: Malibu Unites	Work Order: 14-09-2329
22741 Pacific Coast Hwy, Suite 401	Project Name: M.H. 3
Malibu, CA 90265-5876	PO Number:
	Date/Time Received: 09/30/14 10:10
	Number of Containers: 1

Attn: Jennifer deNicola

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MH3	14-09-2329-1	09/23/14 15:37	1	Solid


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Detections Summary

Client: Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Work Order: 14-09-2329
Project Name: M.H. 3
Received: 09/30/14

Attn: Jennifer deNicola

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Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
MH3 (14-09-2329-1) Aroclor-1254	330		33	mg/kg	EPA 8082	EPA 3540C

Subcontracted analyses, if any, are not included in this summary.


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* MDL is shown



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Analytical Report

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 09/30/14
Work Order: 14-09-2329
Preparation: EPA 3540C
Method: EPA 8082
Units: mg/kg

Project: M.H. 3

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MH3	14-09-2329-1-A	09/23/14 15:37	Solid	GC 31	10/01/14	10/07/14 10:42	141001L29

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	33	100	
Aroclor-1221	ND	33	100	
Aroclor-1232	ND	33	100	
Aroclor-1242	ND	33	100	
Aroclor-1248	ND	33	100	
Aroclor-1254	330	33	100	
Aroclor-1260	ND	33	100	
Aroclor-1262	ND	33	100	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	118	24-168	
2,4,5,6-Tetrachloro-m-Xylene	134	25-145	

Method Blank	099-12-535-2890	N/A	Solid	GC 31	10/01/14	10/06/14 16:57	141001L29
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Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	0.050	1.00	
Aroclor-1221	ND	0.050	1.00	
Aroclor-1232	ND	0.050	1.00	
Aroclor-1242	ND	0.050	1.00	
Aroclor-1248	ND	0.050	1.00	
Aroclor-1254	ND	0.050	1.00	
Aroclor-1260	ND	0.050	1.00	
Aroclor-1262	ND	0.050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	24-168	
2,4,5,6-Tetrachloro-m-Xylene	119	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Quality Control - LCS/LCSD

Malibu Unites
22741 Pacific Coast Hwy, Suite 401
Malibu, CA 90265-5876

Date Received: 09/30/14
Work Order: 14-09-2329
Preparation: EPA 3540C
Method: EPA 8082

Project: M.H. 3

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-2890	LCS	Solid	GC 31	10/01/14	10/06/14 16:19	141001L29
099-12-535-2890	LCSD	Solid	GC 31	10/01/14	10/06/14 16:38	141001L29

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	0.1000	0.1330	133	0.1333	133	50-135	0	0-20	
Aroclor-1260	0.1000	0.1342	134	0.1349	135	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



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Sample Analysis Summary Report

Work Order: 14-09-2329

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8082	EPA 3540C	669	GC 31	1


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 14-09-2329

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<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



CalScience

7440 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: SEPT 29, 2014PAGE: 1 OF 1**14-09-2329**

WO NO. / LAB USE ONLY

LABORATORY CLIENT: MALIBU SCHOOLS		P.O. NO.:																					
ADDRESS: 22741 PCA #401		CLIENT PROJECT NAME / NO.: M.H.3																					
CITY: MALIBU		LAB CONTACT OR QUOTE NO.: DON																					
STATE: CA		SAMPLER(S) (PRINT)																					
ZIP: 90265		LOG CODE:																					
E-MAIL: ADMIN@MALIBUUNITES.COM		GLOBAL ID:																					
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):		REQUESTED ANALYSES Please check box or fill in blank as needed.																					
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> STANDARD																							
EDD: <input type="checkbox"/> COELT EDF <input type="checkbox"/> OTHER																							
SPECIAL INSTRUCTIONS:																							
LAB USE ONLY	SAMPLE ID	SAMPLING DATE	TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6		
<input checked="" type="checkbox"/>	MH3	9/23	3:31		1																		
Relinquished by: (Signature) <i>CAL</i>						Received by: (Signature/Affiliation)						Date: <u>9/29/14</u> Time: <u>1:33</u>											
Relinquished by: (Signature)						Received by: (Signature/Affiliation)						Date: _____ Time: _____											
Relinquished by: (Signature)						Received by: (Signature/Affiliation) <i>premy r.</i>						Date: <u>9/30/14</u> Time: <u>1010</u>											

2014-07-01 Revision

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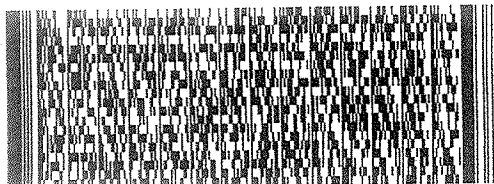
Ref #
Invoice #
PO #
Dept #

GARDEN GROVE, CA 92841

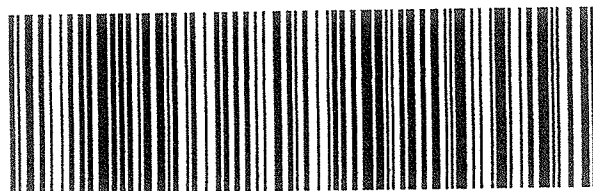
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WORK ORDER #: 14-09-2329

SAMPLE RECEIPT FORM

Envelope
Cooler 1 of 1
8/26/14

CLIENT: Malibu Sch.

DATE: 09/30/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 22.9 °C - 0.3 °C (CF) = 22.6 °C ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 8/26

CUSTODY SEALS INTACT:

☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: 8/26

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 8/26

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☒ Collection date/time, matrix, and/or # of containers logged in based on sample labels.

☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.

Sampler's name indicated on COC..... ☐ ☒ ☐

Sample container label(s) consistent with COC..... ☒ ☐ ☐

Sample container(s) intact and good condition..... ☒ ☐ ☐

Proper containers and sufficient volume for analyses requested..... ☐ ☒ ☐

Analyses received within holding time..... ☒ ☐ ☐

Aqueous samples received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen..... ☐ ☐ ☒

Proper preservation noted on COC or sample container..... ☐ ☐ ☒
☐ Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace..... ☐ ☐ ☒

Tedlar bag(s) free of condensation..... ☐ ☐ ☒

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® ☐ TerraCores® ☒ Z

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna₂ ☐ 1AGBs

☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 1PBna ☐ 500PB

☐ 250PB ☐ 250PBn ☐ 125PB ☐ 125PBznnna ☐ 100PJ ☐ 100PJna₂ ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar® ☐ Canister Other: ☐ _____ Trip Blank Lot#: _____ Labeled/Checked by: 8/26

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 300

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znnna: ZnAc₂+NaOH f: Filtered Scanned by: 300